Under ignorance, information may be worth less than under risk with uniform probabilities (with high confidence). But this is similar to fact that information in latter case may be worth less than information under "much less uncertainty," i.e., non-uniform probabilities. (see Marschak).

Reason for former "paradox" is that, as Marschak shows, value of information need not be directly related to quantity of information. A message may convey "more information"—result in greater "reduction in uncertainty"—to person who assigned uniform probabilities than to one who did not (who was "less uncertain" to begin wish), yet it may not be worth as much, depending on payoffs and structure of problem.

Similarly, IF WE COULD MEASURE UNCERTAINTY WHERE IGNORANCE IS INVOLVED (PRESUMABLY, WITH GIVEN "BEST GUESS" DISTRIBUTION, UNCERTAINTY MIGHT BE ASSUMED TO INCREASE AS DECREASES), informationwhich same measage might convey "even more information" to person who assigned uniform probs with low confidence () thanto one who assigned them with high confidence; it might "reduce uncertainty" even more; yet ikxmightxhavexxxiilxxovexxxxivex information, in terms of the anticipated sorts of messages possible and their separate "values," might appear to have still less value. I might expect that message will reduce my uncertainty radically, yet have no confidence in any estimate in the likelihood that this reduction will be such as to improve my payoff.

Fast that under an light, informay be wath less than under nick with uniform prober, is similar to fact that info in latter case may be worth less than info under "muelless uncertainty": skund probe.

199 - 7

0 V = 49.5 Visita info: 49.5 100 99 Volvingo: 05 99 -1 0 Volvingo: 99 Visita info: 99 Visita info: 99

 $\frac{1}{10} \quad \frac{9}{10} \quad \frac{9}{10} \quad \frac{9}{10} \quad \frac{1}{10} \quad \frac{1}{10}$ 

Complete ignorance is not intuiting competible with acting "as if" one event had an extremely low probability (e.g. 1/2, or 1/3, where or is not of events ) or extremely high prob ( 12-1). Event that whom prob is "too low" are exchald from problem. "Too low" more that range of payoffs to given actions when that event could not be gust enough to make a difference to choice of action, given the upper limit on probe of that went and the range of payoff under other wents. To say that every one of 3 went has at least 1 probe is to say that an inevar of 30 (0, 50 0, 100) in payoff under that went would outwish a dicuse of I in the payoff to lock other event. Strict minimap can lead to acting "as if" one and event

(associated with minimal auterns) were without certain; no improvement in payoffs to other events can orthingh the lower minima of some actions under that went, o o vo

Mining right can have some effect. (?) -100 100 0 0 -99 1 - 99 99 -50 Huming: Om can act as Though 2 wents were much certain

( of two wents have makine and minima . , , )

attacking proto (\$\frac{1}{10}, \frac{1}{10}, \frac{1}{10}\$) is equivalent to acting as if every event last at least \$\frac{1}{10}\$ probability (e.g. p=\frac{1}{10}; \frac{1}{100}; \frac{1}{100}\$).

"Anything is a good but at 100:1" — assuming you have no reason to assign 2 to prot. ( such as, belief that person affering the but has highly whather invide info; or, knowledge of 1000 "equally likely" exclusive events, such as ather letting tickets.

Not the some as saying, "anything is a good but at 15:1,"
when I went an involved, none known to be now or bes
likely then the others. More like: "anything is good at 10°:1"
when 2 = 2, 3, 4, 5 sto.

Then is wisterely always at least 2 events which you if more the 3 ments on wheat would assign, say, at least 1000 brob; in fast, there are usually 3 such events if outcome is uncertain at all , which would rule out street Hurning applied to outcomes.

(not applied to probe disto; wasonable set can reflect this constraint